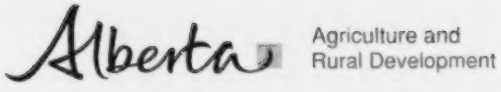
IRRIGATION REHABILITATION PROGRAM

2011/2012

STATUS REPORT

Prepared by



Irrigation Secretariat

Lethbridge, Alberta
November 2012

www.agric.gov.ab.ca/app21/infopage?cat1=Soil%2FWater%2FAir&cat2=Irrigation

ACKNOWLEDGEMENT

Don Gross of Alberta Agriculture and Rural Development's Water Resources Branch provided much of the information contained in this report as part of Mr. Gross' monitoring of the construction activities of the irrigation districts. We greatly appreciate and acknowledge the significant assistance provided by Mr. Gross in the completion of this report.

LIST of ACRONYMS

IRP – IRRIGATION REHABILITATION PROGRAM
ICW – IRRIGATION CAPITAL WORKS
MW – MAJOR WORKS
PS – PLANNING STUDIES
PVC – POLYVINYLCHLORIDE
11/12 – CONSTRUCTION PERIOD August 1, 2011 to July 31, 2012

ABSTRACT

This annual Irrigation Rehabilitation Program (IRP) Status Report summarizes the expenditures and status of all IRP projects that were active during the construction period August 1, 2011 to July 31, 2012.

The IRP began in 1969 and is a cost shared program between Alberta Agriculture and Rural Development and Alberta's 13 irrigation districts. Since 1969 funding levels have varied between $600,000 and $33,400,000 per year. The 2011 funding allocations are shown in Table 1.

The provincial/irrigation district cost share ratio has varied since 1969, starting at 86% province - 14 % irrigation district, changing to 80% - 20% in 1994/95 and to 75% - 25% in 1995/96 and remains at that ratio today.

Irrigation Rehabilitation Financing Agreements are prepared annually between the Minister and each irrigation district. Projects must be approved by Irrigation Council prior to any project costs being paid for with cost shared funds, and all eligible project expenditures must be documented by Progress Certificates.

Circumstances may arise that require an irrigation district to change project priorities from time to time. As well, actual costs may differ from estimated costs because of various circumstances, i.e. poor working conditions due to weather, construction cost inflation, etc.

Information contained in this report was gathered from random monitoring (field visits) of project construction sites, records from the Water Resources Branch and the Irrigation Secretariat and information from irrigation district personnel.

The IRP funding is provided to the districts according to an inter-district allocation formula.

TABLES

The following tables summarize the results of each district's activities for 2011/2012.

Table 1: **Irrigation Rehabilitation Program – Funding**

- Lists the IRP funding received by each district together with the district's share.

Table 2: **Irrigation Rehabilitation Program – Project Construction**

- Lists the IRP projects having substantial construction in each district with statistical data for each project.

Table 3: **Irrigation Rehabilitation Program – Summary of Funding and Expenditures**

- Lists each district's Major Works, Irrigation Capital Works and Planning Study expenditures, total funding allocation, and total expenditures. The expenditures are calculated from each district's progress certificates submitted for the construction period.

Table 4: **Irrigation Rehabilitation Program – Summary of Lengths and Type of Rehabilitation**

- Historical summary of total length and type of rehabilitation completed from 1969 to July 31, 2012.

Table 5: **Irrigation Rehabilitation Program – Summary of Existing Rehabilitated Lengths**

- Lists the length of the irrigation districts current distribution systems, rehabilitated lengths in each district to July 31, 2011, the length of rehabilitation within the 2011/2012 construction period, and the total length rehabilitated to July 31, 2012.

AETNA IRRIGATION DISTRICT (AID)

During this reporting period the AID expended $72,577 of IRP cost shared funds on four projects in the ICW category. Some expenditures involved cleanup of previously completed IRP projects. One project with significant construction in 2011/2012 is listed below.

Domestic supply line and turnout riser
Project #2231

AID IRP Project Construction Summary

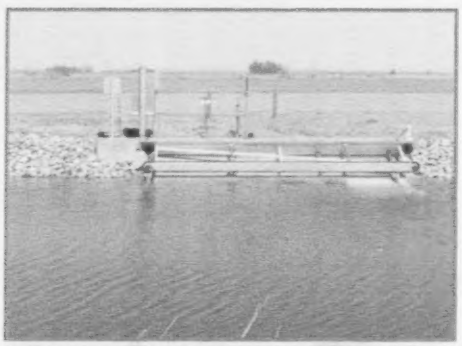
August 1, 2011 to July 31, 2012

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 11/12	% Completed to July 31/12	Liners (metres)	Pipe (metres)	Earth (metres)
2231	ICW	Lateral Extension – C12A	2011 02	2012 01	100%	100%		347	

BOW RIVER IRRIGATION DISTRICT (BRID)

During this reporting period the BRID expended $7,903,246 of IRP cost shared funds on sixteen projects. MW expenditures total $9,730 and ICW and PS expenditures total $7,893,516. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. Those projects with significant construction in 2011/2012 are listed below.

Lateral J pipeline installation Project #2207



Lateral J automated screen cleaner Project #2207

BRID IRP Project Construction Summary

August 1, 2011 to July 31, 2012

			Date				Rehabilitation Completed		
IRP #	**ICW /MW /PS**	**Project Name**	**Project Approved**	**Construction Start**	**% Completed in 11/12**	**% Completed to July 31/12**	**Liners (metres)**	**Pipe (metres)**	**Earth (metres)**
2186	ICW	Lateral H-2-2 (West Block)	2010 02	2011 11	100%	100%		**2948**	
2195	ICW	Lateral A-2 (West Block)	2011 08	2011 10	100%	100%			**1800 (drain)**
2206	ICW	Lateral B-4 (West Block) Pipeline Extension	2011 02	2011 10	100%	100%		**2177**	
2207	ICW	Laterals J & J-1 (Vauxhall Block)	2011 02	2011 09	100%	100%		**25424**	
2249	ICW	Structure Automation & Flow Measurement 2012	2012 02	2012 04	35%	35%	**6 of 16 sites installed**		
								30549	**1800**

EASTERN IRRIGATION DISTRICT (EID)

During this reporting period the EID expended $6,911,045 of IRP cost shared funds on eight projects in the ICW and PS categories. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. Those projects with significant construction in 2011/2012 are listed below.

Water sampling in the EID
Project #2226

Earth canal rehab
Project #2233

EID IRP Project Construction Summary

August 1, 2011 to July 31, 2012

			Date				Rehabilitation Completed		
IRP #	**ICW /MW /PS**	**Project Name**	**Project Approved**	**Construction Start**	**% Completed in 11/12**	**% Completed to July 31/12**	**Liners (metres)**	**Pipe (metres)**	**Earth (metres)**
*2226	ICW	Irrigation Water Quality Assessment	2011 02	2011 05	20%	40%	irrigation water quality study		
2233	ICW	North Bantry Canal	2011 02	2011 11	100%	100%			15895

NOTE: * indicates Special Funding used towards this project

LEAVITT IRRIGATION DISTRICT (LID)

During this reporting period, the LID expended $172,614 of IRP cost shared funds on three projects in the ICW and PS categories. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. The one project with significant construction in 2011/2012 is listed below.

PVC pipeline installation with automated screen cleaner
Project #2082

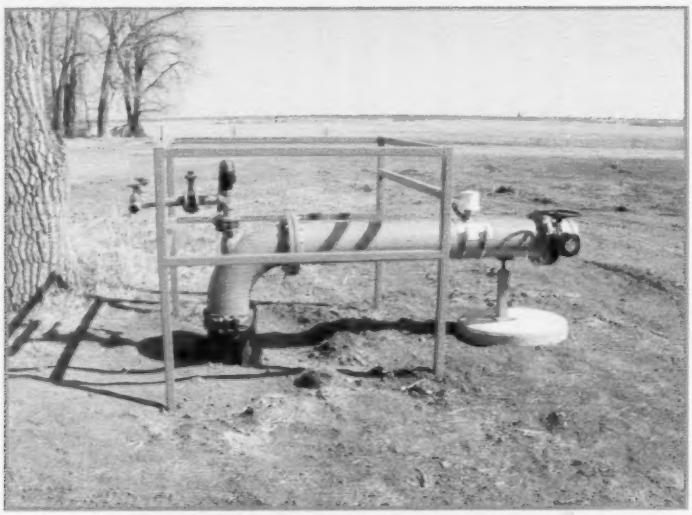
LID IRP Project Construction Summary

August 1, 2011 to July 31, 2012

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 11/12	% Completed to July 31/12	Liners (metres)	Pipe (metres)	Earth (metres)
2082	ICW	East Leavitt Lateral	2006 09	2012 01	100%	100%		1072	

LETHBRIDGE NORTHERN IRRIGATION DISTRICT (LNID)

During this reporting period the LNID expended $511,651 of cost shared funds on three projects in the ICW category. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. There was no major construction in the LNID under the IRP for 2011/2012.



Typical pipeline turnout in the LNID

MAGRATH IRRIGATION DISTRICT (MID)

During this reporting period the MID expended $38,402 of IRP cost shared funds on three projects in the ICW category. These expenditures involved cleanup of previously completed IRP projects and engineering only for future projects. There was no major construction in the MID under the IRP for 2011/2012.

Abandoned channel backfill to reclaim agricultural land

MOUNTAIN VIEW IRRIGATION DISTRICT (MVID)

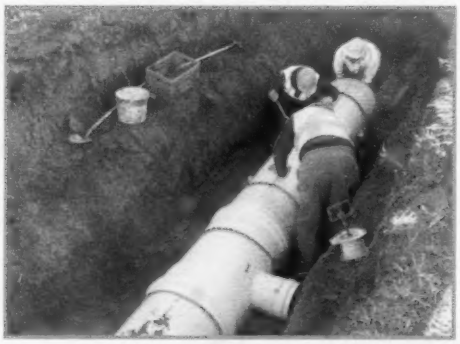
No funds were expended by the MVID during this reporting period.

Mountain View Irrigation District

IRP #2183: MVID Comprehensive Planning Study

RAYMOND IRRIGATION DISTRICT (RID)

During this reporting period the RID expended $985,689 of IRP cost shared funds on six projects in the ICW category. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. The one project with significant construction in 2011/2012 is listed below.



Stirling Lateral #12 pvc pipeline installation and typical pipeline turnout Project #2218

RID IRP Project Construction Summary

August 1, 2011 to July 31, 2012

IRP #	ICW /MW /PS	Project Name	Date				Rehabilitation Completed		
			Project Approved	Construction Start	% Completed in 11/12	% Completed to July 31/12	Liners (metres)	Pipe (metres)	Earth (metres)
2218	ICW	Stirling Lateral #12	2011 02	2011 10	100%	100%		4103	

ROSS CREEK IRRIGATION DISTRICT (RCID)

During this reporting period the RCID expended $12,000 of IRP cost shared funds on one project in the ICW category. This project is listed below.

Washed out field crossing replaced with new csp pipes
Project #2148

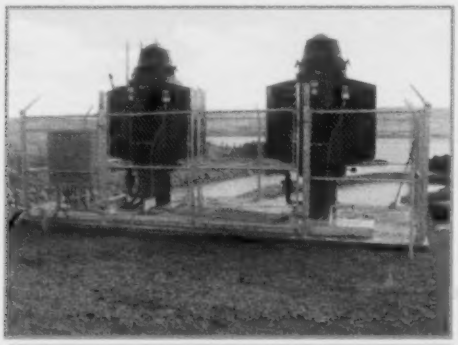
RCID IRP Project Construction Summary

August 1, 2011 to July 31, 2012

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 11/12	% Completed to July 31/12	Liners (metres)	Pipe (metres)	Earth (metres)
2148	ICW	Ross Creek Diversion Canal	2012 02	2011 05	100%	100%	replace washed out field crossing		

St. Mary River Irrigation District (SMRID)

During this reporting period the SMRID expended $9,788,274 of IRP cost shared funds on twenty five projects. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. Those projects with significant construction in 2011/2012 are listed below.



New pumps for Yellow Lake Pump Station
Project #2219

Gabion wall filtration system for
Sunnyside Lateral D pipeline
Project #2234

SMRID IRP Project Construction Summary

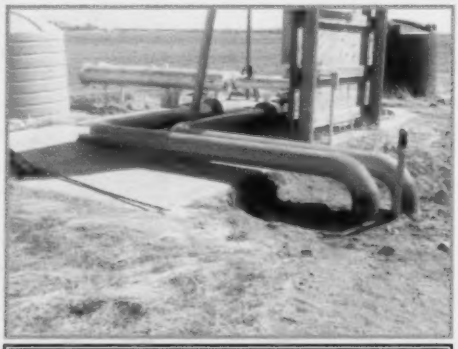
August 1, 2011 to July 31, 2012

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 11/12	% Completed to July 31/12	Liners (metres)	Pipe (metres)	Earth (metres)
2168	ICW	West Medicine Hat Lateral 2 (upstream)	2009 02	2011 10	73%	100%		3184	
2176	ICW	Yellow Lake Lateral 13	2010 02	2011 10	100%	100%		13724	
2219	ICW	Yellow Lake Pump Station	2011 02	2011 12	100%	100%		replace electric pumps	
2228	ICW	Aquatic Weed & Algae Control Structures (2012)	2011 02	2012 01	100%	100%		install five sites	
2234	ICW	Sunnyside Lateral D	2011 02	2011 10	100%	100%		6422	
								23330	

TABER IRRIGATION DISTRICT (TID)

During this reporting period the TID expended $1,328,045 of IRP cost shared funds on twelve projects. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. Those projects with significant construction in 2011/2012 are listed below.

Lateral E pvc pipeline installation
Project #2242



Pipeline turnouts
to producer pumping station
Project #2242

TID IRP Project Construction Summary

August 1, 2011 to July 31, 2012

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 11/12	% Completed to July 31/12	Liners (metres)	Pipe (metres)	Earth (metres)
2220	ICW	Lateral J Big Bend Pipeline	2011 02	2011 11	100%	100%		260	
2223	ICW	Lateral N1 Big Bend Pipeline	2011 02	2011 10	100%	100%		3630	
2242	ICW	Lateral E Cranford (d/s reach)	2012 02	2012 03	100%	100%		2013	
								5903	

UNITED IRRIGATION DISTRICT (UID)

During this reporting period the UID expended $1,035,414 of IRP cost shared funds on three projects in the ICW category. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. Those projects with significant construction in 2011/2012 are listed below.

Lateral D rehabilitation
Project #2161

Lateral D4 pvc pipeline installation
Project #2162

UID IRP Project Construction Summary

August 1, 2011 to July 31, 2012

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 11/12	% Completed to July 31/12	Liners (metres)	Pipe (metres)	Earth (metres)
2161	ICW	Lateral D	2009 02	2011 09	28%	100%			1462
2162	ICW	Lateral D4	2009 02	2012 02	30%	30%		2028	

WESTERN IRRIGATION DISTRICT (WID)

During this reporting period the WID expended $5,129,248 of IRP cost shared funds on six projects in the ICW category. Some expenditures involved cleanup of previously completed IRP projects or engineering only for upcoming projects. The one project with significant construction in 2011/2012 is listed below.

Redland pvc pipeline installation Project #2215

Redland pipeline inlet structure with automated screen cleaner Project #2215

WID IRP Project Construction Summary

August 1, 2011 to July 31, 2012

			Date				Rehabilitation Completed		
IRP #	ICW /MW /PS	Project Name	Project Approved	Construction Start	% Completed in 11/12	% Completed to July 31/12	Liners (metres)	Pipe (metres)	Earth (metres)
2215	ICW	Redland Pipeline (Secondary C)	2011 08	2011 09	100%	100%	581	19979	

TABLES

2011
IRRIGATION REHABIITATION PROGRAM FUNDING

TABLE 1

The following table lists IRP grants received by each district together with each district's share.

IRRIGATION DISTRICT	BASE FUNDING PROVINCIAL GRANT	SPECIAL FUNDING	BASE FUNDING DISTRICT SHARE	TOTAL PROGRAM
AETNA	$79,802	$0	$26,601	$106,403
BOW RIVER	$3,767,180	$100,000	$1,255,727	$5,122,907
EASTERN	$5,650,755	$225,000	$1,883,585	$7,759,340
LEAVITT	$96,057	$0	$32,019	$128,076
LETHBRIDGE NORTHERN	$2,593,816	$0	$864,605	$3,458,421
MAGRATH	$286,187	$0	$95,396	$381,583
MOUNTAIN VIEW	$94,864	$0	$31,621	$126,485
RAYMOND	$644,879	$0	$214,960	$859,839
ROSS CREEK	$27,056	$0	$9,019	$36,075
ST MARY RIVER	$6,171,900	$0	$2,057,300	$8,229,200
TABER	$1,306,761	$100,000	$435,587	$1,842,348
UNITED	$653,366	$0	$217,789	$871,155
WESTERN	$2,202,377	$0	$734,126	$2,936,503
TOTALS	**$23,575,000**	**$425,000**	**$7,858,335**	**$31,858,335**

NOTE: Base Funding Grants are cost shared 75% provincial/25% irrigation district
Base Funding Grants are based on the Inter-District Allocation Formula as follows:

- 50% of the funds allocated on the basis of the number of irrigation acres in each district, and
- 50% of the funds allocated on the basis of the infrastructure replacement cost of specified infrastructure in each district

$100,000 Special Funding Grant to BRID in support of Irrigation Demand Model Redevelopment
$225,000 Special Funding Grant to EID in support of an Irrigation Water Quality Assessment
$100,000 Special Funding Grant to TID is support of IDWIMS Redevelopment

IRRIGATION REHABILITATION PROGRAM
PROJECT CONSTRUCTION
AUGUST 1, 2011 to JULY 31, 2012

TABLE 2

DISTRICT	PROJECT #	ICW /MW /PS	PROJECT NAME	DATE				REHABILITATION COMPLETED		
				PROJECT APPROVAL	CONSTRUCTION START	% COMPLETED in 11/12	% COMPLETE to July 31/12	LINERS	PIPE	EARTH
								(length in metres)		
AID	2231	ICW	Lateral Extension – C12A	2011 02	2012 01	100%	100%	347		
BRID	2186	ICW	Lateral H-2-2 (West Block)	2010 02	2011 11	100%	100%		2948	
BRID	2195	ICW	Laterals A-2 (West Block)	2011 08	2011 10	100%	100%		1800 m drain rehab	
BRID	2206	ICW	Lateral B-4 (West Block) Pipeline Extension	2011 02	2011 10	100%	100%		2177	
BRID	2207	ICW	Laterals J & J-1 (Vauxhall)	2011 02	2011 09	100%	100%		25424	
BRID	2249	ICW	Structure Automation & Flow Measurement 2012	2012 02	2012 04	35%	35%	6 of 16 sites installed		
EID	2226	ICW	Irrigation Water Quality Assessment	2011 02	2011 05	100%	100%	irrigation water quality study		
EID	2233	ICW	North Bantry Canal	2011 02	2011 11	100%	100%			15895
LID	2082	ICW	East Leavitt Lateral	2006 09	2012 01	100%	100%	1072		
RID	2218	ICW	Stirling Lateral #12	2011 02	2011 11	100%	100%	4103		
RCID	2148	ICW	Ross Creek Diversion Canal	2012 02	2011 05	100%	100%	replace washed out crossing		
SMRID	2168	ICW	West Medicine Hat Lateral 2 (upstream)	2009 02	2011 10	73%	100%	3184		
SMRID	2176	ICW	Yellow Lake Lateral 13	2010 02	2011 10	100%	100%	13724		
SMRID	2219	ICW	Yellow Lake Pump Station	2011 02	2011 12	100%	100%	replace electric pumps		
SMRID	2228	ICW	Aquatic Weed & Algae Control Structures (2012)	2011 02	2012 01	100%	100%	install five weed control sites		
SMRID	2234	ICW	Sunnyside Lateral D	2011 02	2011 10	100%	100%	6422		
TID	2220	ICW	Lateral J Big Bend Pipeline	2011 02	2011 11	100%	100%	260		
TID	2223	ICW	Lateral N1 Big Bend Pipeline	2011 02	2011 10	100%	100%	3630		
TID	2242	ICW	Lateral E Cranford (d/s reach)	2012 02	2012 03	100%	100%	2013		

IRRIGATION REHABILITATION PROGRAM
PROJECT CONSTRUCTION
AUGUST 1, 2011 to JULY 31, 2012

TABLE 2

DISTRICT	PROJECT #	ICW /MW /PS	PROJECT NAME	DATE				REHABILITATION COMPLETED		
				PROJECT APPROVAL	CONSTRUCTION START	% COMPLETED in 11/12	% COMPLETE to July 31/12	LINERS	PIPE	EARTH
								(length in metres)		
UID	2161	ICW	Lateral D	2009 02	2011 09	28%	100%			1462
UID	2162	ICW	Lateral D4	2009 02	2012 02	30%	30%		2028	
WID	2215	ICW	Redland Pipeline (Secondary C)	2011 08	2011 09	100%	100%	581	19979	
								581	87311	17357
								TOTAL:	105249	

IRRIGATION REHABILITATION PROGRAM
SUMMARY OF FUNDING AND EXPENDITURES
AUGUST 1, 2011 to JULY 31, 2012

TABLE 3

DISTRICT	2011 TOTAL FUNDING GOV'T & DIST SHARE	11/12 MW EXPENDITURES	11/12 ICW + PS EXPENDITURES	11/12 TOTAL EXPENDITURES
AID	$106,403	$0	$72,577	$72,577
BRID	$5,122,907	$9,730	$7,893,516	$7,903,246
EID	$7,759,340	$0	$6,911,045	$6,911,045
LID	$128,076	$0	$172,614	$172,614
LNID	$3,458,421	$0	$511,651	$511,651
MID	$381,583	$0	$38,402	$38,402
MVID	$126,485	$0	$0	$0
RID	$859,839	$0	$985,689	$985,689
RCID	$36,075	$0	$12,000	$12,000
SMRID	$8,229,200	$0	$9,788,274	$9,788,274
TID	$1,842,348	$0	$1,328,045	$1,328,045
UID	$871,155	$0	$1,035,414	$1,035,414
WID	$2,936,503	$0	$5,129,248	$5,129,248
TOTALS	**$31,858,335**	**$9,730**	**$33,878,475**	**$33,888,205**

NOTE: (1) The total expenditures do not equal the total program funding as construction may occur in a different year (or years) than the year the funds were allocated.

(2) Special Funding is included (if any).

(3) Some districts accrue funds to construct a larger project in the future.

(4) Expenditures are categorized as either:
MW (Major Works) - includes storage reservoirs and dams or conveyance works and seepage control where the design capacity is 6 m^3/s or greater,
ICW (Irrigation Capital Works) - all other irrigation district infrastructure, or
PS (Planning Studies) - studies and digital or photographic imagery used in an irrigation district's overall rehabilitation planning.

IRRIGATION REHABILITATION PROGRAM
SUMMARY OF LENGTH and TYPE OF REHABILITATION
1969 to JULY 31, 2012

TABLE 4

	CONCRETE LINING (km)	MEMBRANE LINERS (km)	PIPELINES (km)	EARTH CANALS (km)	TOTALS (km)	OPEN DRAINS (km)
69/80	219.14	36.07	83.41	211.30	549.92	205.85
80/81	20.04	19.50	24.18	73.19	136.91	41.16
81/82	13.12	18.50	30.27	45.78	107.67	72.89
82/83	15.52	29.13	97.63	103.98	246.26	36.02
83/84	7.01	56.63	56.48	106.52	226.64	16.33
84/85	7.05	48.92	53.09	87.02	196.08	26.68
85/86	7.71	28.08	94.39	94.93	225.11	7.05
86/87	4.58	32.44	85.61	75.00	197.63	15.58
87/88	2.79	37.80	49.75	55.45	145.79	12.83
88/89	0.04	43.16	60.68	47.27	151.15	47.08
89/90	0.00	18.96	54.27	49.03	122.26	3.12
90/91	0.00	34.09	64.54	51.49	150.12	4.21
91/92	0.00	15.86	95.59	43.30	154.75	3.18
92/93	0.00	11.20	76.44	28.33	115.97	7.64
93/94	0.00	26.32	78.22	75.29	179.83	8.58
94/95	0.00	23.31	69.97	15.31	108.59	8.44
95/96	0.00	18.63	92.62	23.28	134.53	8.58
96/97	0.00	11.85	138.74	26.24	176.83	0.00
97/98	0.00	23.71	88.52	16.87	129.10	0.29
98/99	0.00	21.68	86.53	16.57	124.78	0.00
99/00	0.00	11.00	116.57	24.76	152.33	4.59
00/01	0.00	11.65	91.22	9.15	112.02	0.15
01/02	0.00	1.37	96.40	14.55	112.32	0.00
02/03	0.00	4.20	129.31	18.56	152.07	1.70
03/04	0.00	6.37	157.23	8.72	172.32	2.45
04/05	0.00	15.74	97.62	12.94	126.30	1.42
05/06	0.00	1.24	117.86	16.02	135.12	1.42
06/07	0.00	0.70	123.11	13.25	137.06	0.00
07/08	0.00	2.91	73.89	7.17	83.97	0.00
08/09	0.00	2.85	89.20	23.06	115.11	0.50
09/10	0.00	3.32	137.48	18.87	159.67	0.00
10/11	0.00	13.21	99.63	10.51	123.35	0.00
11/12	0.00	0.58	87.31	17.36	105.25	1.80
TOTALS	**297.00**	**630.98**	**2897.76**	**1441.07**	**5266.81**	**539.54**
% of Total	**5.6%**	**12.0%**	**55.0%**	**27.4%**		

NOTES: (1) Open drains designate earth drains used to channel irrigation spill water: lengths do not include deep interceptors, toe drains, tile drains or tile grid systems.
(2) Drains are not included in TOTALS.
(3) Total length differs from Table 5 due to recurrent rehabilitation.

IRRIGATION REHABILITATION PROGRAM
SUMMARY OF REHABILITATED LENGTHS
to JULY 31, 2012

TABLE 5

DISTRICT	TOTAL DISRTICT SYSTEMS (km)	TOTAL SYSTEMS REHABILITATED to JULY 31, 2011 (km)	2011/2012 REHABILITATION (km)	TOTAL to JULY 31, 2012 (km)	% of TOTAL DISTRICT SYSTEM REHABILITATION
AID	37.15	22.32	0.35	22.67	**61%**
BRID	1005.28	777.84	30.55	808.39	**80%**
EID	1920.38	791.74	15.90	807.64	**42%**
LID	53.44	40.44	1.07	41.51	**78%**
LNID	744.30	542.31	0	542.31	**73%**
MID	100.60	88.45	0	88.45	**88%**
MVID	39.66	33.73	0	33.73	**85%**
RID	230.21	211.35	4.10	215.45	**93%**
RCID	26.34	21.69	0	21.69	**82%**
SMRID	1823.66	1204.30	23.33	1227.63	**67%**
TID	337.59	309.48	5.90	315.38	**93%**
UID	236.77	152.01	3.49	155.50	**66%**
WID	1064.52	321.46	20.56	342.02	**32%**
TOTALS	**7619.90**	**4517.12**	**105.25**	**4622.37**	**61%**

NOTES:

(1) Lengths in AID, BRID, EID, LNID, SMRID, UID, & WID exclude Main Canals that were rehabilitated under Alberta Environment's Water Management Systems Improvement Program.

(2) Total Systems Rehabilitated for EID does not include Bank Rebuilding Projects constructed from 1977 to 1982.

(3) Total Systems Rehabilitated for WID does not include "TREE REMOVAL" Projects.

(4) Totals do not include drainage works.

(5) Totals do not include works rehabilitated by a district using its own funds.

(6) Total length differs from Table 4 due to recurrent rehabilitation.

(7) Total Systems Rehabilitated under the IRP to July 31, 2011 is based on the Water Resources Branch current 2012 IIMS database.